

Biology Technical Note #19
Availability of Conservation Plant Releases from Rose Lake
Plant Materials Center
January 2013

CONSERVATION PLANT RELEASES FROM ROSE LAKE PLANT MATERIALS CENTER

The USDA-NRCS Plant Materials Program encourages use of plants to address the nation's most important resource concerns through a network of Plant Materials Centers (PMC) serving all 50 states and territories. To date, the program has released over 500 conservation plants, many being grown by commercial growers for conservation use today.

Serving the Great Lakes Region by releasing conservation plants and through the development and transfer of plant technology is Rose Lake Plant Materials Center in East Lansing, Michigan. Rose Lake PMC is one of 27 Centers nationwide.

Rose Lake PMC collects, assembles, selects, and releases plants to be used for conservation purposes. The typical development process for plant releases is represented diagrammatically in Figure 1 from the National Plant Materials Manual. (Development and transfer of plant technology, the other major PMC product, is also represented in Figure 1.)

The NRCS Plant Materials Program recognizes five release types. Four of these (cultivar, tested, selected, and source-identified) that have been released by Rose Lake PMC are shown in Table 1.

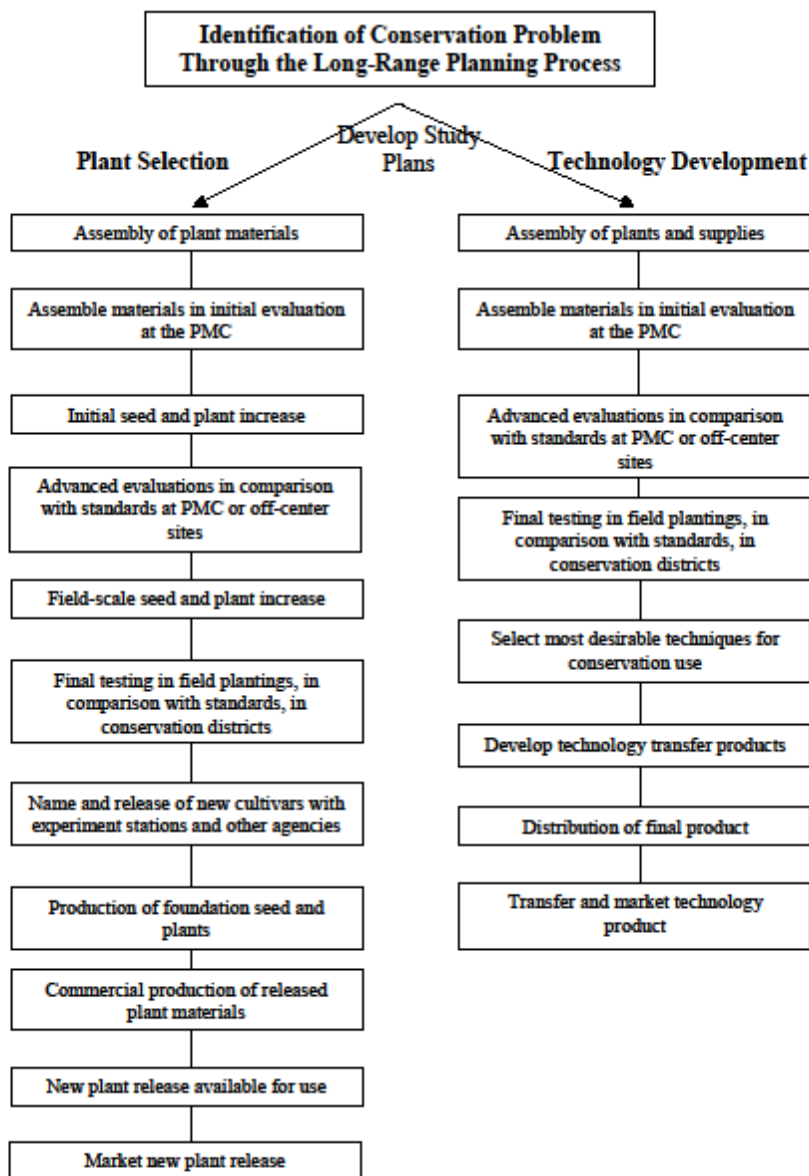
None of the releases from Rose Lake PMC have been altered using genetic engineering techniques. Some have been selected to maximize genetic diversity. Preference is given to releasing plant materials that are native to the Rose Lake PMC service area. All releases are evaluated to ensure that they are not weedy, invasive, or harmful to the environment. Recent releases have been noticed in Native Plants Journal or publications of the American Society of Agronomy (see listing on page 7).

Rose Lake PMC does not sell releases. Rather, in consideration for a user fee paid to the Michigan Crop Improvement Association, approved commercial seed or nursery growers may receive small quantities of seed or nursery stock for increase purposes which they in turn may sell. The application for approval to become a commercial grower of Rose Lake PMC releases is available from Rose Lake PMC.

Rose Lake PMC releases are available to the general public for purchase from commercial growers as shown in Table 2. (These commercial growers received seed or nursery stock from Rose Lake PMC as described in the previous paragraph.) Rose Lake PMC plant releases may also be available from other sources.

Figure 1. Typical Process for Plant Materials Product Development.

540.63 Typical Process for Product Development



(190-V-NPMM, Fourth Edition, July 2010)

Table 1. Rose Lake Plant Materials Center Plant Releases by Release Type as Described by USDA-NRCS Plant Materials Program.

Release Type and Description	Release Name
Cultivar: An assemblage of cultivated plants clearly distinguished by characters (morphological, physiological, cytological, chemical, other) and when reproduced (sexually or asexually) retains these characters.	'Affinity' Northern White Cedar
	'Imperial' Carolina Poplar
	'Indigo' Silky Dogwood
	'Lancer' Perennial Pea
	'Magenta' Hybrid Crabapple
	'Roselow' Sargent's Crabapple
Tested: The progeny of plants whose parentage has been tested and has proven genetic superiority or possesses distinctive traits for which the heritability is stable as defined by the certifying agency; seed or plants must be produced to ensure genetic purity and identity from either rigidly controlled and isolated natural stands or individual plants, or seed fields or orchards.	Alcona Germplasm Dillenius' Tick-Trefoil
	Grant Germplasm Panicleleaf Tick-Trefoil
	Icy Blue Germplasm Canada Wildrye
	Marion Germplasm Dillenius' Tick-Trefoil
	Riverbend Germplasm Silky Willow
Selected: The progeny of phenotypically selected plants of untested parentage that have promise but not proof of genetic superiority or distinctive traits, produced to ensure genetic purity and identity from either rigidly controlled and isolated stands or individual plants, or seed fields or orchards.	Koch Germplasm Prairie Sandreed
	Leelanau Germplasm Highbush Cranberry
	Prairie View Indiana Germplasm Big Bluestem
	Prairie View Indiana Germplasm Indiangrass
	Prairie View Indiana Germplasm Little Bluestem
	Vintage Germplasm Common Elderberry
Source-Identified: Seed, seedlings, or other propagating materials collected from natural stands, seed production areas, seed fields, or orchards where no selection or testing of the parent population has been made; produced to ensure genetic purity and identity from either rigidly defined natural stands, seed production areas, seed fields, or orchards. Source identified releases within the Plant Materials Program will generally not be used because of a lack of performance information.	Southlow Michigan Germplasm Big Bluestem
	Southlow Michigan Germplasm Indiangrass
	Southlow Michigan Germplasm Little Bluestem
	Southlow Michigan Germplasm Switchgrass

Table 2. Commercial Growers of Plant Materials Released by Rose Lake Plant Materials Center.

	'Affinity' Northern White Cedar	Alcona Germplasm Dillinius' Tick- Trefoil	Grant Germplasm Panicled/leaf Tick- Trefoil	Icy Blue Germplasm Canada Wildrye	'Imperial' Carolina Poplar	Indigo' Silky Dogwood	Koch Germplasm Prairie Sandreed	Lancer' Perennial Pea	Leelanau Germplasm Highbush Cranberry	Magenta' Hybrid Crabapple	Marion Germplasm Dillinius' Tick- Trefoil	Prairie View Indiana Germplasm Big Bluestem	Prairie View Indiana Germplasm Indiangrass	Prairie View Indiana Germplasm Little Bluestem	Riverbend Germplasm Silky Willow	Roselow' Sargent's Crabapple	Southlow Michigan Germplasm Big Bluestem	Southlow Michigan Germplasm Indiangrass	Southlow Michigan Germplasm Little Bluestem	Southlow Michigan Germplasm Switchgrass	Vintage Germplasm Common Elderberry
Alpha Nurseries 3737 65 th St. Holland, MI 49423 269-857-7804 info@alphanurseries.com www.alphanurseries.com	✓																✓				
Cold Stream Farm 2030 Free Soil Rd. Free Soil, MI 49411 231-464-5809 info@coldstreamfarm.net www.coldstreamfarm.net										✓											
Engel's Nursery 6432 120 th Ave. Fennville, MI 49408 269-543-4123 info@engelsnursery.com www.engelsnursery.com										✓						✓					
Ernst Conservation Seeds 9006 Mercer Pike Meadville, PA 16335 800-873-3321 814-336-2404 sales@ernstseed.com www.ernstseed.com		✓	✓	✓								✓	✓	✓			✓	✓	✓	✓	
Lincoln Oakes Nursery 3310 University Dr. Bismarck, ND 58504 701-223-8575 lincolnoakes@lincolnoakes.com www.lincolnoakes.com						✓															
Morse Nursery 12300 Betz Rd. Battle Creek, MI 49015 269-979-4252 www.morsenursery.com						✓			✓	✓						✓					

Table 2 (cont'd). Commercial Growers of Plant Materials Released by Rose Lake Plant Materials Center.

	'Affinity' Northern White Cedar	Alcona Germplasm Dillenius' Tick- Trefoil	Grant Germplasm Pinnated/leaf Tick- Trefoil	Icy Blue Germplasm Canada Wildrye	'Imperial' Carolina Poplar	Indigo' Silky Dogwood	Koch Germplasm Prairie Sandreed	'Lancer' Perennial Pea	Leelanau Germplasm Highbush Cranberry	Magenta' Hybrid Crabapple	Marion Germplasm Dillenius' Tick- Trefoil	Prairie View Indiana Germplasm Big Bluestem	Prairie View Indiana Germplasm Indiangrass	Prairie View Indiana Germplasm Little Bluestem	Riverbend Germplasm Silky Willow	Roselow' Sargent's Crabapple	Southlow Michigan Germplasm Big Bluestem	Southlow Michigan Germplasm Indiangrass	Southlow Michigan Germplasm Little Bluestem	Southlow Michigan Germplasm Switchgrass	Vintage Germplasm Common Elderberry
Native Connections 17080 Hoshel Road Three Rivers, MI 49093 269-580-4765 jerry@nativeconnections.net www.nativeconnections.net																	✓	✓	✓	✓	
Native Prairie Restorations P.O. Box 652 Saline, MI 48176 734-741-9987 info@nativeprairierestorations.com www.nativeprairierestorations.com												✓						✓	✓	✓	
Pinelands Nursery & Supply 323 Island Rd. Columbus, NJ 08022 609-291-9486 sales@pinelandsnursery.com www.pinelandsnursery.com						✓															
Schumachers Nursery & Berry Farm 37806 910 th St. Heron Lake, MN 56137 507-793-2288 Berry01@centurytel.net www.schumachersnursery.com						✓															
Shooting Star Native Seed 20740 County Road 33 Spring Grove, MN 55974 507-498-3944 507-498-3944 ssns@springgrove.coop www.shootingstarnativeseed.com							✓					✓	✓	✓			✓	✓	✓		
Vans Pines Nursery 14731 Baldwin St. West Olive, MI 49460 616-399-1620 info@vanspinesnursery.com www.vanspinesnursery.com	✓															✓					

Reference

USDA-NRCS. 2010. National Plant Materials Manual.
http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1042145.pdf (accessed 6 Dec 2012).

Notices of Rose Lake PMC Releases

Durling, J.C., J.W. Leif, and D.W. Burgdorf. 2006. Registration of Icy Blue Canada Wildrye Germplasm. *Crop Sci.* 46:2330-2331.

Durling, J.C., J.W. Leif, and D.W. Burgdorf. 2007. Registration of Southlow Michigan Big Bluestem Germplasm. *Crop Sci.* 47:455.

Durling, J.C., J.W. Leif, and D.W. Burgdorf. 2007. Registration of Southlow Michigan Little Bluestem Germplasm. *Journal of Plant Registrations.* 1:134.

Durling, J.C., J.W. Leif, and D.W. Burgdorf. 2008. Registration of Southlow Michigan Germplasm Indiangrass. *Journal of Plant Registrations.* 2:56.

Durling, J.C., J.W. Leif, and D.W. Burgdorf. 2008. Registration of Southlow Michigan Germplasm Switchgrass. *Journal of Plant Registrations.* 2:60.

Leif, J.W., J.C. Durling, and D.W. Burgdorf. 2010. Notice of Release of Dillenius' tick-trefoil: a Selected Class of Natural Germplasm. *Native Plants Journal* 11(1):23-25.

Leif, J.W., J.C. Durling, and D.W. Burgdorf. 2011. Notice of Release of Vintage Germplasm Common Elderberry: a Selected Class of Natural Germplasm. *Native Plants Journal.* 12(2):129-131.

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